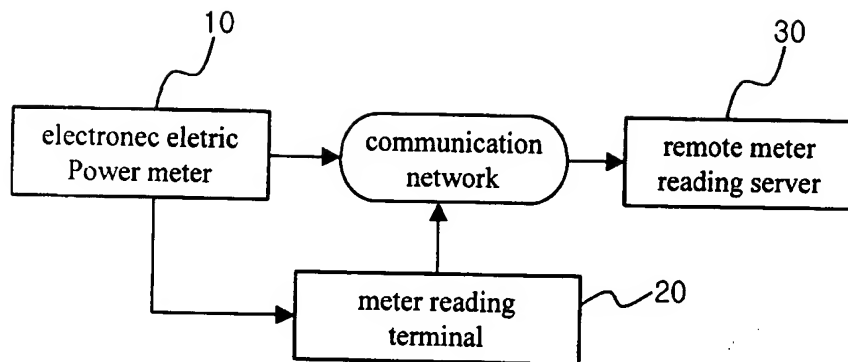
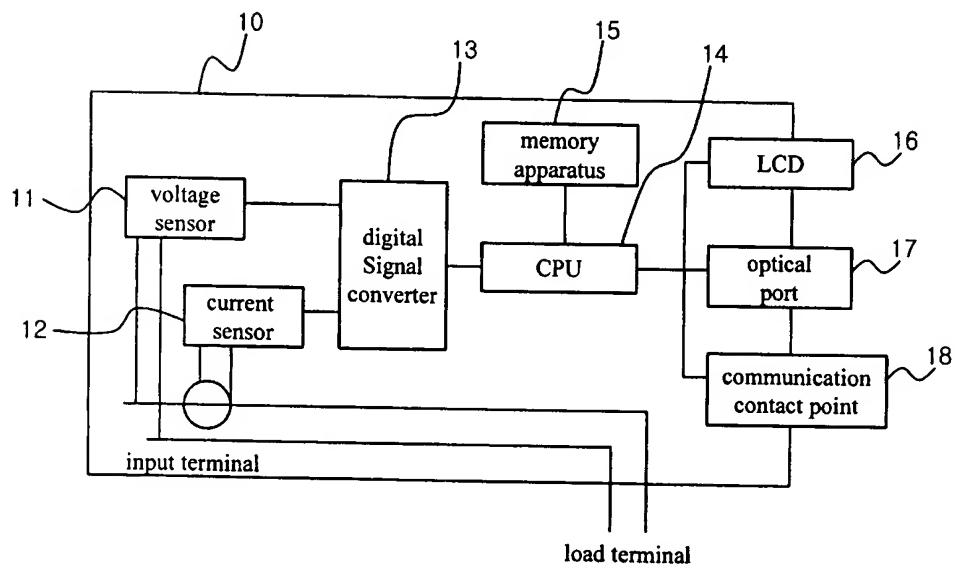
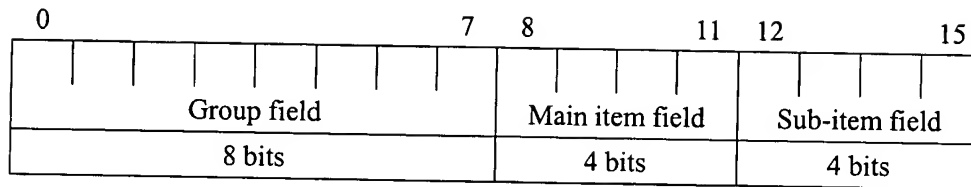


**Fig. 1****Fig. 2**

**Fig. 3****Fig. 4**

Data group	Classification code	Functions
gauge setting group	0x01FF	gauge, LCD, LCD output item, setting
meter reading group	0x02FF	meter reading method, LP setting, demand power setting
rate setting group	0x03FF	TOU, holiday, sun light saving setting
gauge state group	0x04FF	basic information, meter reading, gauge, communication, power failure information
meter reading date group	0x05FF	meter reading data before 6 months with reference to current month
maximum demand power data group	0x06FF	LP data by periods
reservation gauge setting group	0x11FF	gauge, LCD, LCD output item, modem setting
reservation meter reading group	0x12FF	meter reading method, LP setting, demand power setting
reservation rate setting group	0x13FF	TOU, holiday, sun light saving setting

**Fig. 5**

Main item	Detailed items	Memory region		
		Byte	Type	Code
1.instrument setting (0x011F)	1.current program name	8	R/W	0x0111
	2.reservation program name	12	R/W	0x0112
	3.password	Super	R/W	0x0113
		R/W	R/W	0x0114
		R/O	R/W	0x0115
	4.electronic transformer multiple	4	R/W	0x0116
	5.Reg k	2	R/W	0x0117
	6.Scale Factor	1	R/W	0x0118
	7.Pulse initiator	1	R/W	0x0119
	8.KYZ divisor	1	R/W	0x011A
	9.Pules width	1	R/W	0x011B
2.LCD setting (0x012F)	1.event and error display	1	R/W	0x0121
	2.scroll time	1	R/W	0x0122
	3.data format	5	R/W	0x0123
	4.common mode auto returning time	1	R/W	0x0124
	5.blank	1	R/W	0x0125
	6.date display	1	R/W	0x0126
	7.time display	1	R/W	0x0127
	8.LCD stop for error	1	R/W	0x0128
	9.EOI, DR display duration time	1	R/W	0x0129
3.LCD output item (0x013F)	1.common mode	90	R/W	0x0131
	2.selection mode	90	R/W	0x0132
	3.test mode	90	R/W	0x0133
4.modem setting (0x014F)	1.modem kind	1	R/W	0x0141
	2.initialization command	30	R/W	0x0142
	3.number of retrials	1	R/W	0x0143
	4.reponse standby time	2	R/W	0x0144
	5.telephone number 1	20	R/W	0x0145
	6.telephone number 2	20	R/W	0x0146
	7.telephone number 3	20	R/W	0x0147
	8.modem communication speed	2	R/W	0x0148
5.command group (0x015F)	1.common function command code	2	R/W	0x0151

\* R/W – Read and Write

**Fig. 6**

Main item	Detailed items	Memory region		
		Byte	Type	Code
1.meter reading method (0x021F)	1.meter reading operation condition	1	R/W	0x0211
	2.periodic meter reading date	1	R/W	0x0212
	3.non-periodic meter reading date	2*12	R/W	0x0213
	4.selection valid power amount	1	R/W	0x0214
	5.selection invalid power amount	1	R/W	0x0215
	6.selection apparent power amount	1	R/W	0x0216
2.LP setting (0x022F)	1.LP channel	4	R/W	0x0221
	2.LP storing period	1	R/W	0x0222
3.demand power (0x023F)	1.demand interval	1	R/W	0x0231
	2.sub-demand limit period(number)	1	R/W	0x0232
	3.demand delay time	1	R/W	0x0233
	4.delay possible power failure time	1	R/W	0x0234
	5.demand exceeding value setting	4	R/W	0x0235
	6.setting limit time	1	R/W	0x0236
	7.EOI closure time	1	R/W	0x0237
	8.demand reset setting condition	1	R/W	0x0238
	9.specfic date after period	1	R/W	0x0239
	10.demand power measuring method	1	R/W	0x023A

**Fig. 7**

Main item	Detailed items	Memory region		
		Byte	Type	Code
1.TOU setting (0x031F)	1.season	3B*8	R/W	0x0311
	2.day	(1+3*8)*8	R/W	0x0312
	3.season based day adaptation	8*8B	R/W	0x0313
2.holiday input (0x032F)	1.periodic holiday	3B*20	R/W	0x0321
	2.non-periodic holiday	5B*20*7	R/W	0x0322
3.sun light saving (0x033F)	1.sun light saving setting	1	R/W	0x0331
	2.start month and date	2	R/W	0x0332
	3.ending month and date	2	R/W	0x0333

**Fig. 8**

Main item	Detailed items	Memory region		
		Byte	Type	Code
1.basic (0x041F)	1.gauge firm ware version	5	RO	0x0411
	2.gauge ID	6	RO	0x0412
	3.supply method	1	RO	0x0413
	4.current time	8	RO	0x0414
	5.first program setting date and time	7	RO	0x0415
	6.current program setting date and time	7	RO	0x0416
	7.date and time before change	7*10	RO	0x0417
	8.date and time after change	7*10	RO	0x0418
2.meter reading (0x042F)	1.current season	1	RO	0x0421
	2.current day classification	1	RO	0x0422
	3. current rate	1	RO	0x0423
	4. contract demand exceeding record	10*10	RO	0x0424
	5. contract demand exceeding number	2	RO	0x0425
	6. DR date and time and kind	8*10	RO	0x0426
	7.DR occurrence number	2	RO	0x0427
	8.meter reading date and time history and kind	8*10	RO	0x0428
	9.meter reading operation accumulation number	2	RO	0x0429
	10.communication date and time history and kind	8*10	RO	0x042A
	11.communication accumulation occurrence number	2	RO	0x042B
3.error, event flag (0x043F)	1.gauge error flag	1	RO	0x0431
	2.gauge event flag	1	RO	0x0432
4.error log (0x044F)	1.gauge error accumulation number	2	RO	0x0441
	2.gauge error log	8*10	RO	0x0442
	3.gauge error recovery log	8*10	RO	0x0443
5.communication speed (0x045F)	1.modem speed	2	RO	0x0451
	2.optical port	2	RO	0x0452

**Fig. 9**

Main item	Detailed items	Memory region		
		Byte	Type	Code
6.power failure (0x046F)	1.power failure accumulation time	5	RO	0x0461
	2.last power failure recovery record	14*2	RO	0x0462
	3.power failure recovery record	14*10	RO	0x0463
	4.power failure occurrence number	2	RO	0x0464
	5.battery remaining period	3	RO	0x0465
	6.battery exchange date and time	5	RO	0x0466
7.common information log (0x047F)	1.forward direction instantaneous valid power	4B*4	RO	0x0471
	2.reverse direction instantaneous valid power	4B*4	RO	0x0472
	3.ground instantaneous valid power	4B*4	RO	0x0473
	4.phase advanced invalid power	4B*4	RO	0x0474
	5.instantaneous apparent power	4B*4	RO	0x0475
	6.instantaneous voltage	4B*3	RO	0x0476
	7.instantaneous current	4B*3	RO	0x0477
	8.current energy upper limit	1	RO	0x0478
	9.instantaneous power factor	4	RO	0x0479
	10.instantaneous frequency	4B*3	RO	0x047A
	11.battery volt	4	RO	0x047B
8.LP basic information (0x048F)	1.LP start time	6	RO	0x0481
	2.LP ending time	6	RO	0x0482
	3.LP accumulation case number	2	RO	0x0483
	4.LP overlap count	1	RO	0x0484
9.communication error log (0x049F)	1.communication error accumulation number	2	RO	0x0491
	2.communication error log	8*10	RO	0x0492
	3.communication error recovery log	8*10	RO	0x0493

**Fig. 10**

Main item	Detailed times	Memory region		
		Byte	Type	Code
1.energy (0x051F)	Current month	4B*9*5	RO	0x0511
	- Jan	"	RO	0x0512
	- Feb	"	RO	0x0513
	- Mar	"	RO	0x0514
	- Apr	"	RO	0x0515
	- May	"	RO	0x0516
	- Jun	"	RO	0x0517
2.demand power (0x052F)	Current month	4B*9*5	RO	0x0521
	- Jan	"	RO	0x0522
	- Feb	"	RO	0x0523
	- Mar	"	RO	0x0524
	- Apr	"	RO	0x0525
	- May	"	RO	0x0526
	- Jun	"	RO	0x0527
3.accumulation demand power (0x053F)	Current month	4B*9*5	RO	0x0531
	- Jan	"	RO	0x0532
	- Feb	"	RO	0x0533
	- Mar	"	RO	0x0534
	- Apr	"	RO	0x0535
	- May	"	RO	0x0536
	- Jun	"	RO	0x0537
4.continuous accumulation demand power (0x054F)	Current month	4B*9*5	RO	0x0541
	- Jan	"	RO	0x0542
	- Feb	"	RO	0x0543
	- Mar	"	RO	0x0544
	- Apr	"	RO	0x0545
	- May	"	RO	0x0546
	- Jun	"	RO	0x0547
5.maximum demand occurrence date and time (0x055F)	Current month	7B*9*5	RO	0x0551
	- Jan	"	RO	0x0552
	- Feb	"	RO	0x0553
	- Mar	"	RO	0x0554
	- Apr	"	RO	0x0555
	- May	"	RO	0x0556
	- Jun	"	RO	0x0557
6.maximum continuous accumulation demand occurrence date and time (0x056F)	Current month	7B*9*5	RO	0x0561
	- Jan	"	RO	0x0562
	- Feb	"	RO	0x0563
	- Mar	"	RO	0x0564
	- Apr	"	RO	0x0565
	- May	"	RO	0x0566
	- Jun	"	RO	0x0567



**Fig. 11**

Main item	Detailed items	Memory region		
		Byte	Type	Code
7.demand power occurrence power factor 1 (0x057F)	Current month	4B*9*5	RO	0x0571
	- Jan	"	RO	0x0572
	- Feb	"	RO	0x0573
	- Mar	"	RO	0x0574
	- Apr	"	RO	0x0575
	- May	"	RO	0x0576
	- Jun	"	RO	0x0577
8.demand power occurrence power factor 2 (0x058F)	Current month	4B*9*5	RO	0x0581
	- Jan	"	RO	0x0582
	- Feb	"	RO	0x0583
	- Mar	"	RO	0x0584
	- Apr	"	RO	0x0585
	- May	"	RO	0x0586
	- Jun	"	RO	0x0587
9.average power factor 1 (0x059F)	Current month	4B*9*5	RO	0x0591
	- Jan	"	RO	0x0592
	- Feb	"	RO	0x0593
	- Mar	"	RO	0x0594
	- Apr	"	RO	0x0595
	- May	"	RO	0x0596
	- Jun	"	RO	0x0597
10.average power factor 2 (0x05AF)	Current month	4B*9*5	RO	0x05A1
	- Jan	"	RO	0x05A2
	- Feb	"	RO	0x05A3
	- Mar	"	RO	0x05A4
	- Apr	"	RO	0x05A5
	- May	"	RO	0x05A6
	- Jun	"	RO	0x05A7
11.previous limit demand power (0x05BF)	Demand power	4B*9*5*10	RO	0x05B1
	Power factor	4B*9*5*10	RO	0x05B2
12.maximum demand power occurrence history (0x05CF)	Occurrence date	7B*9*5	RO	0x05C1
	Demand power	7B*9*5	RO	0x05C2
	Power factor	7B*9*5	RO	0x05C3

**Fig. 12**

Main item	Detailed items	Memory region		
		Byte	Type	Code
1.LP data : 15 min (0x061F)	1. LP register	12B	RO	0x0611
2.LP data : 1 hour (0x062F)	1. LP register	12B*4	RO	0x062
3.LP data : 1 day (0x063F)	1. LP register	12B*96	RO	0x0631
4.LP data : 1 week (0x064F)	1. LP register	12B*672	RO	0x0641
5.LP data : 30 days (0x065F)	1. LP register	12B*2880	RO	0x0651
6.LP data : 90 days (0x066F)	1. LP register	12B*8640	RO	0x0661
7.LP data : entire (0x06FF)	1. LP register	12B* $\infty$	RO	0x067F1

**Fig. 13**

Main item	Detailed items		Memory region		
			Byte	Type	Code
1.instrument setting (0x111F)	1.current program name		8	R/W	0x1111
	2.reservation program name		12	R/W	0x1112
	3.password	Super	4	R/W	0x1113
		R/W	4	R/W	0x1114
		R/O	4	R/W	0x1115
	4.electronic transformer multiple		4	R/W	0x1116
	5.Reg k		2	R/W	0x1117
	6.Scale Factor		1	R/W	0x1118
	7.Pulse initiator		1	R/W	0x1119
	8.KYZ divisor		1	R/W	0x111A
9.Pules width		1	R/W	0x111B	
2.LCD setting (0x112F)	1.event and error display		1	R/W	0x1121
	2.scroll time		1	R/W	0x1122
	3.data format		5	R/W	0x1123
	4.common mode auto returning time		1	R/W	0x1124
	5.blank		1	R/W	0x1125
	6.date display		1	R/W	0x1126
	7.time display		1	R/W	0x1127
	8.LCD stop for error		1	R/W	0x1128
	9.EOI, DR display duration time		1	R/W	0x1129
3.LCD output item (0x113F)	1.common mode		90	R/W	0x1131
	2.selection mode		90	R/W	0x1132
	3.test mode		90	R/W	0x1133
4.modem setting (0x114F)	1.modem kind		1	R/W	0x1141
	2.initialization command		30	R/W	0x1142
	3.number of retrials		1	R/W	0x1143
	4.reponse standby time		2	R/W	0x1144
	5.telephone number 1		20	R/W	0x1145
	6.telephone number 2		20	R/W	0x1146
	7.telephone number 3		20	R/W	0x1147
	8.modem communication speed		2	R/W	0x1148
5.command group (0x115F)	1.common function command code		2	R/W	0x1151

**Fig. 14**

Main item	Detailed items	Memory region		
		Byte	Type	Code
1.meter reading method (0x121F)	1.meter reading operation condition	1	R/W	0x1211
	2.periodic meter reading date	1	R/W	0x1212
	3.non-periodic meter reading date	2*12	R/W	0x1213
	4.selection valid power amount	1	R/W	0x1214
	5.selection invalid power amount	1	R/W	0x1215
	6.selection apparent power amount	1	R/W	0x1216
2.LP setting (0x122F)	1.LP channel	4	R/W	0x1221
	2.LP storing period	1	R/W	0x1222
3.demand power (0x123F)	1.demand interval	1	R/W	0x1231
	2.sub-demand limit period(number)	1	R/W	0x1232
	3.demand delay time	1	R/W	0x1233
	4.delay possible power failure time	1	R/W	0x1234
	5.demand exceeding value setting	4	R/W	0x1235
	6.setting limit time	1	R/W	0x1236
	7.EOI closure time	1	R/W	0x1237
	8.demand reset setting condition	1	R/W	0x1238
	9.specfic date after period	1	R/W	0x1239
	10.demand power amount method	1	R/W	0x123A

**Fig. 15**

Main item	Detailed items	Memory region		
		Byte	Type	Code
1.TOU setting (0x131F)	1.season	3B*8	R/W	0x1311
	2.holiday	(1+3*8)*8	R/W	0x1312
	3.season based day adaptation	8*8B	R/W	0x1313
2.holiday input (0x132F)	1.periodic holiday	3B*20	R/W	0x1321
	2.non-periodic holiday	5B*20*7	R/W	0x1322
3.sun light saving (0x133F)	1.sun light saving setting	1	R/W	0x1331
	2.start month and date	2	R/W	0x1332
	3.ending month and date	2	R/W	0x1333